**3GPP TSG RAN WG2#116-e R2-21xxxxx**

**e-Meeting, 1st - 12th November, 2021**

**Title: [Draft] Reply LS** **on UP security policy updated by intra-cell handover**

**Response to:** R2-2109346

**Release:** Release 16

**Work Item:** TEI16

**Source:** China Telecom (to be RAN2)

**To:** RAN3, SA3

**Cc:**

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**1. Overall Description:**

RAN2 thanks RAN3 for the LS in R2-2109346 on the UP security policy updated by intra-cell handover.

RAN2 has discussed the question raised in LS and would like to inform RAN3 that:

The enabling/disabling of ciphering or integrity protection of one or multiple DRBs can be changed only by releasing and adding the DRB which can be configured in the same RRC reconfiguration message. Per TS33.501, the target gNB shall initiate an intra-cell handover procedure to reconfigure the DRBs to activate or de-activate the UP integrity/confidentiality. However, from RAN2 perspective, whether to carry reconfigurationWithSync in RRC reconfiguration message to enable/disable of ciphering or integrity protection depends on the gNB’s policy.

In addition, the integrity protection and ciphering algorithms can only be changed with reconfiguration with sync.

**2. Actions:**

**To RAN3:**

**Action:** RAN2 respectfully asks RAN3 and SA3 to take the above information into account.

**3. Dates of Next TSG-RAN WG2 Meetings:**

TSG-RAN WG2 Meeting #116-bis-e 17 – 25 January 2022 Online

TSG-RAN WG2 Meeting #117-e 21 February – 3 March 2022 Online